

App. No. 10/800,056
Amendment Dated: April 19, 2007
Reply to Final Office Action of October 19, 2006

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Amendments to the Claims:

1 (currently amended): A computer-implemented method for binding data in a user interface (UI) script, comprising:

generating a tree structure that corresponds to the UI script; wherein generating the tree structure includes automatically determining templates that were previously grafted to the tree and automatically removing any templates that were previously grafted to the tree;

accessing a reference template;

cloning the reference template to create a cloned reference template while maintaining the reference template;

inserting the data into the cloned reference template;

grafting the cloned reference template into the tree structure after the data has been inserted into the cloned reference template; and

displaying a UI output according to the tree structure, whereby the UI output is dynamically updated with the data.

2 (previously presented): The computer-implemented method of claim 1, wherein the reference template includes a reference tag used to delineate components to which data binding is applied.

3 (previously presented): The computer-implemented method of claim 1, wherein cloning the reference template further comprises determining which portions of the tree structure correspond to a specified tag of the UI script.

4 (original): The computer-implemented method of claim 3, wherein the specified tag has an associated attribute for retrieving multiple records for display in the UI output as a list of records.

5 (original): The computer-implemented method of claim 3, wherein the specified tag has an associated attribute that specifies an interval for refreshing the data.

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6 (original): The computer-implemented method of claim 1, wherein inserting the data further comprises retrieving the data from an external data source.

7 (original): The computer-implemented method of claim 6, wherein retrieving the data further comprises determining a location of the data according to a uniform resource locator (URL) within the UI script.

8 (original): The computer-implemented method of claim 6, wherein retrieving the data further comprises passing a uniform resource locator (URL) that identifies a location of the data to a communication library.

9 (original): The computer-implemented method of claim 1, wherein a state is associated with each portion of the tree structure in which data is inserted.

10 (original): The computer-implemented method of claim 9, wherein a first component is displayed in the UI when the state corresponds to a first state, and a second component is displayed in the UI when the state corresponds to a second state.

11 (currently amended): A computer-readable medium that includes computer-executable instructions for binding data to a user interface (UI) script, comprising:

generating a tree structure that corresponds to the UI script; wherein generating the tree structure includes automatically determining templates that were previously grafted to the tree and automatically removing any templates that were previously grafted to the tree;

cloning a reference template to create a cloned reference template while maintaining the reference template for later use; wherein a portion of the reference template is associated with a portion of the UI script that includes a placeholder for data;

replacing the placeholder in the cloned reference template with the data;

grafting the cloned reference template into the tree structure; and

displaying a UI output according to the tree structure, whereby the UI output is dynamically updated with the data.

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12 (original): The computer-readable medium of claim 11, wherein the tree structure and the UI script are logically equivalent.

13 (previously presented): The computer-readable medium of claim 11, wherein cloning the reference template further comprises determining which portions of the tree structure correspond to a specified tag of the UI script.

14 (original): The computer-readable medium of claim 13, wherein the specified tag has an associated attribute for retrieving multiple records for display in the UI output as a list of records.

15 (original): The computer-readable medium of claim 13, wherein the specified tag has an associated attribute that specifies an interval for refreshing the data.

16 (original): The computer-readable medium of claim 11, wherein replacing the placeholder further comprises retrieving the data from an external data source.

17 (original): The computer-readable medium of claim 16, wherein replacing the placeholder further comprises passing a uniform resource locator (URL) that identifies a location of the data to a communication library.

18 (original): The computer-readable medium of claim 11, wherein a state is associated with each portion of the tree structure in which a placeholder is present.

19 (original): The computer-readable medium of claim 18, wherein a first component is displayed in the UI when the state corresponds to a first state, and a second component is displayed in the UI when the state corresponds to a second state.

20 (currently amended): A system for binding data to a user interface (UI) script, comprising:

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a target user interface device that includes a first application that is configured to:

generate a tree structure that corresponds to the UI script; wherein generating the tree structure includes automatically determining templates that were previously grafted to the tree and automatically removing any templates that were previously grafted to the tree;

cloning a reference template to create a cloned reference template while maintaining the reference template;

insert the data into the cloned reference template;

graft the cloned reference template into the tree structure after the data has been inserted;
and

display a UI output according to the tree structure, whereby the UI output is dynamically updated with the data.

21 (original): The system of claim 20, wherein the application is further configured to determine which portions of the tree structure correspond to a specified tag of the UI script.

22 (original): The system of claim 21, wherein the specified tag has an associated attribute for retrieving multiple records for display in the UI output as a list of records.

23 (original): The system of claim 21, wherein the specified tag has an associated attribute that specifies an interval for refreshing the data.

24 (original): The system of claim 20, wherein a state is associated with each portion of the tree structure in which data is inserted.

25 (original): The system of claim 24, wherein a first component is displayed in the UI when the state corresponds to a first state, and a second component is displayed in the UI when the state corresponds to a second state.